WHAT IS CLAIMED IS:

1	1. A method for registration of first and second images out of
2	registration, the method comprising the steps of:
3	(a) making the edges in the first and second images more prominent;
4	(b) thresholding the first and second images from the previous step
5	using a threshold for which N percent of the pixels of each of the first and second
6	images are over the threshold;
7	(c) reducing the resolution of the first and second images from the
8	previous step; and
9	(d) registering the first and second images of reduced resolution from
10	the previous step.
1	2. The method of claim 1, further comprising the step of blurring the
2	first and second images from the thresholding step.
1	3. The method of claim 2, wherein the blurring step comprises filtering
2	each of the first and second images from the thresholding step such that each pixel
3	therein is thickened by a predetermined number of pixels in a square array that extends
4	the predetermined number of pixels in all four directions from a central pixel.
1	4. The method of claim 1, further comprising the step of increasing the
2	resolution of the registered first and second images from the registering step.
1	5. The method of claim 1, wherein step (a) comprises filtering the first
2	and second images with an edge-enhancement filter.
1	6. The method of claim 1, wherein N, the percentage of pixels of each
2	of the first and second images which are over the threshold is in the range of 70-80
3	percent.

1	7. The method of claim 6, wherein N, the percentage of pixels of each
2	of the first and second images which are over the threshold is 80 percent.
1	8. The method of claim 1, wherein step (b) further comprises choosing
2	N automatically by computing a histogram of pixel intensities and setting the
3	threshold for which N percent are over the threshold for a predetermined value of N.
1	9. The method of claim 1, wherein step (c) comprises reducing the
2	resolution of each of the first and second images from the previous step by a factor
3	used to partition each of the first and second images from the previous step into square
4	blocks of pixels and replacing each square with the sum of the pixel values.
1	10. The method of claim 1, wherein step (d) comprises using a
2	normalized correlation as a criteria for registering the first and second images from the
3	previous step.
1	11. The method of claim 1, wherein the registering of step (d) is done
2	using a Fourier technique.
1	12. A program storage device readable by machine, tangibly
2	embodying a program of instructions executable by machine to perform method steps
3	for registration of first and second images out of registration, the method comprising
4	the steps of:
5	(a) making the edges in the first and second images more prominent;
6	(b) thresholding the first and second images from the previous step
7	using a threshold for which N percent of the pixels of each of the first and second
8	images are over the threshold;

9	(c) reducing the resolution of the first and second images from the
10	previous step; and
11	(d) registering the first and second images of reduced resolution from
12	the previous step.
1	13. The program storage device of claim 12, further comprising the
2	step of blurring the first and second images from the thresholding step.
1	14. The program storage device of claim 13, wherein the blurring step
2	comprises filtering each of the first and second images from the thresholding step such
3	that each pixel therein is thickened by a predetermined number of pixels in a square
4	array that extends the predetermined number of pixels in all four directions from a
5	central pixel.
1	15. The program storage device of claim 12, further comprising the
2	step of increasing the resolution of the registered first and second images from the
3	registering step.
1	16. The program storage device of claim 12, wherein step (a)
2	comprises filtering the first and second images with an edge-enhancement filter.
1	17. The program storage device of claim 12, wherein N, the percentage
2	of pixels of each of the first and second images which are over the threshold is in the
3	range of 70-80 percent.
1	18. The program storage device of claim 17, wherein N, the percentage
2	of pixels of each of the first and second images which are over the threshold is 80
3	percent.

1	19. The program storage device of claim 12, wherein step (b) further
2	comprises choosing N automatically by computing a histogram of pixel intensities and
3	setting the threshold for which N percent are over the threshold for a predetermined
4	value of N.
1	20. The program storage device of claim 12, wherein step (c)
2	comprises reducing the resolution of each of the first and second images from the
3	previous step by a factor used to partition each of the first and second images from the
4	previous step into square blocks of pixels and replacing each square with the sum of
5	the pixel values.
1	21. The program storage device of claim 12, wherein step (d)
2	comprises using a normalized correlation as a criteria for registering the first and
3	second images from the previous step.
1	22. The program storage device of claim 12, wherein the registering of
2	step (d) is done using a Fourier technique.
1	23. A computer program product embodied in a computer-readable
2	medium for implementing registration of first and second images out of registration,
3	the computer program product comprising:
4	(a) computer readable code means for making the edges in the first and
5	second images more prominent;
6	(b) computer readable code means for thresholding the first and second
7	
8	images from the previous step using a threshold for which N percent of the pixels of each of the first and second images are over the threshold;
9	
0	(c) computer readable code means for reducing the resolution of the
U	first and second images from the previous step; and

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11	(d) computer readable code means for registering the first and second
12	images of reduced resolution from the previous step.
1	24. The computer program product of claim 23, further comprising
2	computer readable code means for blurring the first and second images from the
3	thresholding.
1	25. The computer program product of claim 23, further comprising
2	computer readable code means for increasing the resolution of the registered first and
3	second images from the registering.
1	26. The computer program product of claim 1, wherein (b) further
2	comprises computer readable code means for choosing N automatically by computing
3	a histogram of pixel intensities and setting the threshold for which N percent are over
4	the threshold for a predetermined value of N.
1	27. The computer program product of claim 1, wherein (c) comprises
2	computer readable code means for reducing the resolution of each of the first and
3	second images from the previous step by a factor used to partition each of the first and
4	second images from the previous step into square blocks of pixels and replacing each
5	square with the sum of the pixel values.
1	28. The computer program product of claim 1, wherein (d) comprises
2	computer readable code means for using a normalized correlation as a criteria for

registering the first and second images from the previous step.